

09/24/2007 16:05 FAX 7034152559  
09/24/07 MON 14:42 FAX 7033085369

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Date: 24 Sep 2007

To

5 sheets

FROM:

To: Mr Ralph A Dowell

From: Lun-See Lao

Application/Control Number: 10/664,040

Art Unit: 2615

Fax No.: 703-415-2559

Phone No.: 571-272-7501

Voice No.:

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Please see minor changes

Thank you

Ralph Dowell

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**DETAILED ACTION**

1. This action responds to the amendment filed on 07-11-2007. Claims 1-2, 5-8 and 11-15 have been amended.

***Examiner's Amendment***

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3. Authorization for this examiner's amendment was given in a telephone interview with Mr. Ralph A. Dowell on 09-24-2007.

4. The application have been amended as follows:

1. (currently amended) A sound system for providing reflected stereo audio to a listening position in a vehicle, comprising:

a. a first smooth surface oriented at an upwardly inclined angle toward the listening position;

b. a second surface positioned at an acute angle with respect to said first smooth surface forward of the listening position and facing said first smooth surface;

wherein said first smooth surface is a front windshield and the second surface is a portion of a front dashboard;

c. first and second planar magnetic transducers mounted to said second surface so as to be oriented toward said first smooth surface and wherein each of said first and

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second planar magnetic transducers includes a diaphragm having an elongated central axis;

d. an acoustic enclosure mounted beneath each of said first and second transducers and said second surface;  
e. said first and second transducers being mounted relative to said second surface such that the elongated central axes of said diaphragms thereof are generally aligned and are oriented parallel to the listening position and with said first and second transducers being spaced

from each other so that sound from said first planar magnetic transducer is directed to one ear of a person seated at the listening position and sound from said second planar magnetic transducer is directed to another ear of the person seated at the listening position, whereby audio from the first and second transducers is reflected from the first smooth surface toward the listening position providing stereo imaging; and

f. an audio source connected to each of said first and second transducers.

2. (currently amended) An automotive sound system providing direct stereo audio to a listening position located in a vehicle seat, comprising:

~~a first interior surface tapered upwardly and facing the listening position;~~  
~~at~~  
a first interior surface incline upwardly ~~at~~ an angle facing toward the listening position;  
~~at~~  
a second interior surface positioned ~~at~~ an acute angle with relative to said first interior surface forward of the listening position and facing said first interior surface;

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wherein said first interior surface is a front windshield and the second interior surface is a portion of a front dashboard;

b. first and second planar magnetic transducers mounted relative to a second interior surface so as to direct audio sound there through toward said first interior surface and wherein each of said first and second planar magnetic transducers includes a diaphragm having an elongated central axis;

c. said first and second planar magnetic transducers being oriented such that the elongated central axes of said diaphragms thereof extend generally parallel to the listening position, said first and second planar magnetic transducers being spaced from one another in a general linear arrangement so that sound from said first planar magnetic transducer is directed to one ear of a person seated at the listening position and sound from said second planar magnetic transducer is directed to another ear of the person seated at the listening position, and wherein the audio sound from said first and second planar magnetic transducers is reflected from the first interior surface directly toward the fixed listening location providing stereo imaging; and

d. audio source electronics connected to said first and second planar magnetic transducers to create an audio stereo output.

Claim 4 (currently amended) The automotive sound system of claim 3, 2 wherein the vehicle seat is a vehicle front seat.

Please cancel claim 3

**Allowable Subject Matter**

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5. Claims 1-2 and 4-15 are allowed.

**Conclusion**

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

7. Any response to this action should be mailed to:

Mail Stop \_\_\_\_\_ (explanation, e.g., Amendment or After-final, etc.)

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lao,Lun-See whose telephone number is (571) 272-7501. The examiner can normally be reached on Monday-Friday from 8:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin Vivian, can be reached on (571) 272-7848.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2800 whose telephone number is (571) 272-2600.

Lao,Lun-See  
Patent Examiner  
US Patent and Trademark Office  
Knox  
571-272-7501  
Date 09-24-2007